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File 344:Chinese Patents Abs Aug 1985-2003/Mar
         (c) 2003 European Patent Office
File 347:JAPIO Oct 1976-2003/Apr(Updated 030804)
         (c) 2003 JPO & JAPIO
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200355
         (c) 2003  Thomson Derwent
? ds

Set     Items   Description
S1     187781   FONT?? OR CHARACTER?? OR LETTERS
S2      78562   EMULAT? OR SIMULAT?
S3        301   (USING OR UTILI?) AND (SECOND OR ANOTHER) AND FONT??
S4         95   (STRIPPING OR TAKING OR EDITING) AND (TOP(3N)LINE? OR BOTT-
               OM()LINE?)
S5          0   S4 AND (PIXEL? OR PEL OR PICTURE()ELEMENT?)
S6      79619   S1 AND (PART OR PARTS OR SECTION?? OR POINT?? OR SEGMENT??
               OR PORTION?? OR FRAGMENT? OR PARTIAL)
S7        516   (GENERAT? OR CREAT? OR RENDER? OR PRODUC?) AND (ANOTHER OR
               SECOND OR ADDITIONAL) AND FONT??
S8     577204   COPYING OR STORING OR STORE
S9        265   EIGHT(3N)FOURTEEN OR EIGHT(3N)SIXTEEN
S10        29   NINE(3N)FOURTEEN OR NINE(3N)SIXTEEN
S11         4   9X16 OR 8X14
S12         2   9X14 OR 8X14
S13     41172   (CHANG? OR REDUC? OR MINIMI? OR SHRINK? OR SHORTER? OR SMA-
               LLER? OR DECIMAT?) AND S1
S14    120156   IC=G06T?
S15      3360   S6 AND (PIXEL? OR PEL OR PICTURE()ELEMENT?)
S16       657   S15 AND S14
S17       188   S16 AND  (CHANG? OR REDUC? OR MINIMI? OR SHRINK? OR SHORTE-
               R? OR SMALLER? OR DECIMAT?)
S18         0   S17 AND S2
S19         3   S17 AND TOP AND BOTTOM
S20         4   S1 AND S4 AND (CHANG? OR REDUC? OR MINIMI? OR SHRINK? OR S-
               HORTER? OR SMALLER? OR DECIMAT? OR ALTER?)
S21         4   S20 NOT S19
S22         1   S9:S12 AND FONT??
S23      3071   S6 AND (GENERAT? OR CREAT? OR RENDER? OR PRODUC?) AND (ANO-
               THER OR SECOND OR ADDITIONAL)
S24       957   S23 AND (STORAGE OR STORED OR DATABASE)
S25        71   S24 AND (PIXEL? OR PEL OR PICTURE()ELEMENT?)
S26        18   S25 AND (CHANG? OR REDUC? OR MINIMI? OR SHRINK? OR SHORTER?
              OR SMALLER? OR DECIMAT? OR ALTER?)
S27        18   S26 NOT (S19 OR S20)
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**19/3,K/1 (Item 1 from file: 347)**
DIALOG(R)File 347:JAPIO


05515716 **Image available**
IMAGE PROCESSING UNIT RECOGNIZING **TOP** AND **BOTTOM** OF ORIGINAL IMAGE

PUB. NO.: 09-130516 [JP 9130516 A]
PUBLISHED: May 16, 1997 (19970516)
INVENTOR(s): NABESHIMA TAKAMOTO
HASHIMOTO HIDEYUKI
IMAIZUMI SHOJI
SAKATANI KAZUTOMI
APPLICANT(s): MINOLTA CO LTD [000607] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 07-303341 [JP 95303341]
FILED: October 30, 1995 (19951030)

IMAGE PROCESSING UNIT RECOGNIZING **TOP** AND **BOTTOM** OF ORIGINAL IMAGE

INTL CLASS: H04N-001/00; **G06T-007/00** ; G06K-009/20; H04N-001/387

ABSTRACT
PROBLEM TO BE SOLVED: To provide the image processing unit recognizing automatically **top** and **bottom** of an original image...
...SOLUTION: **Parts** of capital **letters** and small **letters** used in an English **font** original exceed over the mean line and under the base line, and number of the **letters** exceeding over the mean line used in the original is more than number of **letters** under the base line. Number of **picture elements** of the **letters** in the arranged direction of the **letters** is accumulated to generate a histogram shaped shown in figure (b) and let peaks in the histogram at the upper **part** and the lower **part** of the x-height (h), that is, on the mean line and the base line be edges e1 and e2 respectively, then there exists a **smaller** peak p1 being the accumulated **picture elements** of the **letters** higher than the mean line above the edge e1 in the histogram and also exists a **smaller** peak p2 being the accumulated **picture elements** of the **letters** lower than the base line below the edge e2 in the histogram. The side of the original where the **smaller** peak p1 is in existence is discriminated to be the **top** of the **character** string because the frequency of the use of the **letters** above the mean line is more than that of the **letters** below the base line.

**19/3,K/2 (Item 2 from file: 347)**
DIALOG(R)File 347:JAPIO


05123997 **Image available**
VIDEO PRINTER

PUB. NO.: 08-079497 [JP 8079497 A]
PUBLISHED: March 22, 1996 (19960322)
INVENTOR(s): KAMIKUBOTA MASAFUMI
APPLICANT(s): FUJI PHOTO FILM CO LTD [000520] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 06-210089 [JP 94210089]
FILED: September 02, 1994 (19940902)

INTL CLASS: H04N-001/387; B41J-005/30; **G06T-003/60** ; H04N-001/23

ABSTRACT

PURPOSE: To secure coincidence of directions between video images and **character** images of a photographing date, etc., by **changing** automatically these two directions...

...image memory 15 with coincidence secured between up-dot direction of the memory 15 and **top - bottom** direction of the video images. The **character** data obtained by evolving the **character** images of a photographing date, etc., are written in a RAM 29 in the same direction as the up-down direction of **characters** . In a full-size mode, the image and **character** data are read out of both memories 15 and 29 respectively form the left to the right and by each line consisting of **pixels** arrayed in the vertical direction. In a half-size mode, the image data are read...

... memory 15 from the upper side to the lower side by each line consisting of **pixels** arrayed in the horizontal direction and then thinned and **reduced** after a 90 deg. turn. Meanwhile the **character** images are read out of the RAM 29 from the upper side to the lower side by each line consisting of **pixels** arrayed in the horizontal direction and undergo the vertical/horizontal conversion against the video images. Then both video and **character** images are set in each other and synthesized together through an image synthesization **part** 21, and these syntehsized images are printed.

**19/3,K/3 (Item 3 from file: 347)**



04853643 **Image available**

SYMBOL DETECTOR

PUB. NO.: 07-146243 [JP 7146243 A]
PUBLISHED: June 06, 1995 (19950606)
INVENTOR(s): NAGASAKI HIROSHI
KIMURA YORIAKI
APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 05-293536 [JP 93293536]
FILED: November 24, 1993 (19931124)

INTL CLASS: G01N-021/88; **G06T-007/00**

ABSTRACT

... wherein a binary-coded image stored is scanned from a specified direction to determine a **changing point** from a non-symbol image to a symbol image and the symbol image at the **changing point** is altered to the non-symbol image to remove effect by the seepage of ink...

...CONSTITUTION: A **character** , mark and the like to be detected are taken with a camera 1 and binary coded with an A/D converter of a binary coding processing **section** 2a to be stored into an image memory 2c of an image memory block 11...

...2e is taken in to be scanned downward to the right from the left and **pixels** of black are turned to white at the **changing point** where the **pixels** of the image **change** to the black from white to be stored into an image memory 2f. The same...

...right to the left and downward to be stored into a memory 2g, from the **top** to the **bottom** and from the left to the right to be stored into a memory 2h and from the **bottom** to the **top** and from the left to the right to be stored into a memory 2i. An image data stored is rearranged in a fine line by ANDing computation for each **pixel** and is stored into an image memory 2j after the removal of the effect by...
?

**21/3,K/1 (Item 1 from file: 347)**
DIALOG(R)File 347:JAPIO


03089262 **Image available**
**CHARACTER** PROCESSOR

PUB. NO.: 02-064762 [JP 2064762 A]
PUBLISHED: March 05, 1990 (19900305)
INVENTOR(s): WADA YUZO
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 63-214872 [JP 88214872]
FILED: August 31, 1988 (19880831)
JOURNAL: Section: P, Section No. 1053, Vol. 14, No. 249, Pg. 51, May 28, 1990 (19900528)

**CHARACTER** PROCESSOR

ABSTRACT
PURPOSE: To make cursor operation easy and to make **editing** work, etc., efficient by **changing** the form of the cursor of a display according to positional relation in a document...

... cursor is investigated. When the cursor is positioned between a top margin 1 and a **top** margin proximate **line** 5, the cursor is lighted in the form of 2-2 and processing is ended...

**21/3,K/2 (Item 2 from file: 347)**
DIALOG(R)File 347:JAPIO


01891568 **Image available**
ELECTRONIC TYPEWRITER

PUB. NO.: 61-105668 [JP 61105668 A]
PUBLISHED: May 23, 1986 (19860523)
INVENTOR(s): KAWASHIMA MASAMITSU
APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 59-227213 [JP 84227213]
FILED: October 29, 1984 (19841029)
JOURNAL: Section: P, Section No. 502, Vol. 10, No. 288, Pg. 28, September 30, 1986 (19860930)

ABSTRACT
PURPOSE: To enable to continuously process **editing** /proofing with easy operations, by moving the sentence to be corrected to the next line...

... next to the last position of the line, short sound is issued to inform the **change** of line, and next line is read out from a memory 8, and displayed in the **character** display part 15 setting the cursor at the **top** of the **line** , and then completes the rightward movement of the cursor. When the cursor is not at...

... In this way, by only one kind of operation of the cursor rightward movement key, **editing** , correction and confirmation can be done to the sentences from the beginning to the end...

**21/3,K/3 (Item 3 from file: 347)**
DIALOG(R)File 347:JAPIO


01861560 **Image available**
FACSIMILE EQUIPMENT

PUB. NO.: 61-075660 [JP 61075660 A]
PUBLISHED: April 18, 1986 (19860418)
INVENTOR(s): KIKUCHI MASAYUKI
HANAZAWA KAZUOKI
APPLICANT(s): OKI ELECTRIC IND CO LTD [000029] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 59-196748 [JP 84196748]
FILED: September 21, 1984 (19840921)
JOURNAL: Section: E, Section No. 431, Vol. 10, No. 248, Pg. 17, August 26, 1986 (19860826)

ABSTRACT

PURPOSE: To eliminate the necessity to make edition for each image **line** and **top** shorten the time for edition remarkably by providing a memory for 1 **character** line and a **changeover** switch...

...CONSTITUTION: A **character** pattern stored in an ROM is edited according to an **editing** program, and image data for 1 **character** line are edited in an RAM. A printing section and image line data D7 on...

...data are transferred and printed. By making this process until DC, image data for 1 **character** line are transferred and printed.

**21/3,K/4 (Item 1 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


007956783 **Image available**
WPI Acc No: 1989-221895/198931
XRPX Acc No: N89-169316
**Automatic page end feature for an electronic typewriter - shifts effective page and point to shift or phan line of next to next page**
Patent Assignee: IBM CORP (IBMC )
Inventor: COOK S A; GERSTLE P J; SMITH D R; STILZ K R
Number of Countries: 006 Number of Patents: 003
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 325883 | A | 19890802 | EP 88480079 | A | 19881122 | 198931 | B |
| BR 8900351 | A | 19890919 | | | | 198943 | |
| US 4889439 | A | 19891226 | US 88149805 | A | 19880129 | 199008 | |

Priority Applications (No Type Date): US 88149805 A 19880129
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| EP 325883 | A | E | 12 | | |
| Designated States (Regional): DE FR GB IT | | | | | |
| US 4889439 | A | | 12 | | |

...Abstract (Basic): ending to accomodate the widow line on the present page (11) rather than forcing the **line** to the **top** of the next page ...

...The text is not **altered** in the memory of the typewriter and no stop codes or page end codes are...
...Abstract (Equivalent): As each **character** is played, the line of text in which it resides is checked to determine its...

...continual checking of the relative locations, and does not require page ending stop codes. If **editing** occurs, which shifts the text, the processing of the text codes, as the text is...
?

**22/3,K/1 (Item 1 from file: 347)**
DIALOG(R)File 347:JAPIO


04259190 **Image available**
CHARACTER **FONT** READ ONLY MEMORY AND CHARACTER **FONT** READ ONLY MEMORY ACCESS CIRCUIT

PUB. NO.: 05-250890 [JP 5250890 A]
PUBLISHED: September 28, 1993 (19930928)
INVENTOR(s): KOBAYASHI MITSURU
APPLICANT(s): NEC NIIGATA LTD [491611] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 04-045145 [JP 9245145]
FILED: March 03, 1992 (19920303)
JOURNAL: Section: P, Section No. 1672, Vol. 18, No. 14, Pg. 160, January 11, 1994 (19940111)

CHARACTER **FONT** READ ONLY MEMORY AND CHARACTER **FONT** READ ONLY MEMORY ACCESS CIRCUIT

ABSTRACT
... a memory capacity without adding an external circuit by storing prescribed data in a character **font** ROM and performing a prescribed transformation by an address transforming unit...
...CONSTITUTION: A character **font** ROM 3 stores the data which contain letter face sections of each character **font** data without the top and the bottom body face sections and '0' data of **eight** bits or **sixteen** bits in which prescribed addresses are stored. During a reading, an address 7 is supplied...

... a prescribed transformation to an address 7. The transformed address 8 is supplied to a **font** ROM 3 and the character **font** data are read by a ROM output signal 9 without using an expander.
?

27/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX


013362902 **Image available**
WPI Acc No: 2000-534841/200049
XRPX Acc No: N00-395692

**Mapping apparatus for** storage **of bitmap** font **data within data processing systems, comprises two lookup tables for** generating **address from information in first table using error value and position N within** second **table**

Patent Assignee: ARM LTD (ARMA-N); ADVANCED RISC MACHINES LTD (ADRI-N)
Inventor: SYMES D; SYMES D H
Number of Countries: 006 Number of Patents: 007
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| GB 2346470 | A | 20000809 | GB 992664 | A | 19990205 | 200049 | B |
| JP 2000227789 | A | 20000815 | JP 99180722 | A | 19990625 | 200054 | |
| CN 1263306 | A | 20000816 | CN 99108958 | A | 19990705 | 200055 | |
| US 6236342 | B1 | 20010522 | US 99306408 | A | 19990506 | 200130 | |
| KR 2000076581 | A | 20001226 | KR 20004843 | A | 20000201 | 200134 | |
| TW 427079 | A | 20010321 | TW 99107408 | A | 19990506 | 200151 | |
| US 6304198 | B1 | 20011016 | US 99306408 | A | 19990506 | 200164 | |
| | | | US 2000671122 | A | 20000928 | | |

Priority Applications (No Type Date): GB 992664 A 19990205
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| GB 2346470 | A | | 27 | H03M-007/42 | |
| JP 2000227789 | A | | 10 | G09G-005/22 | |
| CN 1263306 | A | | | G06F-012/04 | |
| US 6236342 | B1 | | | H03M-007/40 | |
| KR 2000076581 | A | | | G06F-012/02 | |
| TW 427079 | A | | | H03M-007/40 | |
| US 6304198 | B1 | | | H03M-007/40 | Div ex application US 99306408 |

**Mapping apparatus for** storage **of bitmap** font **data within data processing systems, comprises two lookup tables for** generating **address from information in first table using error value and position N within** second **table**

Abstract (Basic):
... Pictograph **font characters** represented by **character** codes (2) is used to determine an address (8) within a variable length coded data...

...Table 1 returns an initial offset HuffOff, an average size AvSz of data for a **character** and a **pointer** TB2Off to a **second** Table 2. The **pointer** specifies the beginning of a range of entries in the **second** table to be matched against rest of the **character** code to lookup an error value Err, this leads to the **generation** of the address (8).
... CLAIM is also included for a method of mapping an A-bit code to a **storage** location within a memory of variable length code data representing A-bit code...

...For **storage** of bitmap **font** data within data processing systems...

... **Reduces** the overall **storage** capacity needed for lookup operations by realization that the position of the variable length coded data corresponding to a particular **character** can be estimated with only the error in that estimation having to be **stored** for an individual

**character** .
...

...The figure illustrates a technique for mapping an A-bit **font character** code to a **storage** location within a memory holding variable length coded data representing a **pixel** bitmap of that **character** .
...Title Terms: **STORAGE** ;

**27/3,K/2 (Item 2 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

012244286 **Image available**
WPI Acc No: 1999-050393/199905
XRPX Acc No: N99-037260
**Dot matrix type LCD device - has selector which chooses dot patterns held by first and** second **data latches that should be relayed to the electrodes arranged in LCD**
Patent Assignee: OKI ELECTRIC IND CO LTD (OKID ); OKI MICRO DESIGN MIYAZAKI KK (OKID )
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| JP 10301542 | A | 19981113 | JP 97112506 | A | 19970430 | 199905 | B |

Priority Applications (No Type Date): JP 97112506 A 19970430
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| JP 10301542 | A | | 10 | G09G-003/36 | |

... **has selector which chooses dot patterns held by first and** second **data latches that should be relayed to the electrodes arranged in LCD**
...Abstract (Basic): includes an LCD (11) which contains x electrodes (11x) orthogonally crossing with y electrodes (11y). **Pixels** are shown on the intersecting **portion** of the electrodes through the drive voltage sequentially applied to the electrodes. **Characters** are shown on the lCD by grouping the **pixels** into the corresponding **character** groups. The code corresponding to the position by which the **characters** are shown on the LCD is **stored** into a RAM (12). A **character** pattern is then output from a ROM (13) based on the code read out from...

...The dot pattern corresponding to the sequentially-relayed codes is **produced** by a **character** pattern **generating** unit. Dot patterns equivalent to one **character** line is held by a data latch (15), while dot patterns equal to one line are output from a **second** RAM (21) and held by a **second** data latch (22). Based on selecting signal (SEL), a selector (31) chooses the dot patterns...

...ADVANTAGE - **Reduces** operating and component costs...
...Title Terms: **SECOND** ;

**27/3,K/3 (Item 3 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

010972073 **Image available**
WPI Acc No: 1996-469022/199647

XRPX Acc No: N96-395264
**Image** generation **appts for performing texture mapping - calculates brightness value at each** pixel **position based on** additional **attribute value at each** pixel **position and is then displayed on display screen**
Patent Assignee: NEC CORP (NIDE )
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| JP 8235379 | A | 19960913 | JP 9559862 | A | 19950223 | 199647 | B |

Priority Applications (No Type Date): JP 9559862 A 19950223
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| JP 8235379 | A | | 10 | G06T-015/40 | |

**Image** generation **appts for performing texture mapping...**

...**calculates brightness value at each** pixel **position based on** additional **attribute value at each** pixel **position and is then displayed on display screen**

...Abstract (Basic): The image **generation** appts has a table in which the image corresponding to a number of objects defined in 3-D space, is **stored** . The optical reflective transparent **character** of data is displayed. An optical setting **part** stores the object data containing a corresponding feature data of an object. An output **part** (3) outputs the **pixel** position in the order of priority on the screen corresponding to a number of objects displayed on the screen. A **pixel** value calculation **part** (2) calculates the **pixel** value which is not to be displayed on the screen, based on the depth and...

...The **pixel** which is output in the order of priority is displayed without erasing. The mapping **part** calculates an **additional** attribute value at each **pixel** position on the screen, where the image corresponding to an object is displayed by an acquisition to the attribute value and mapping being based on the corresponding position of **pixel** output in an order of priority. A brightness calculation **part** (5) calculates the brightness value of each concerned **pixel** position based on the **additional** attribute value, for mapping. A display **part** displays the image corresponding to the object of a number of screen...
...ADVANTAGE - Enables display of semi-transparent object. **Reduces** number of processing...
...Title Terms: **GENERATE** ;

**27/3,K/4 (Item 4 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


010646505 **Image available**
WPI Acc No: 1996-143459/199615
XRPX Acc No: N96-120234
**Pattern and** character **display method for graphic display device - involves providing pattern and** character **display that is meaningful by comparing with that** stored **in memory**
Patent Assignee: FUJI ELECTRIC CO LTD (FJIE ); FUJIFACON CORP (FUJX )
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---|---|---|---|---|---|---|

JP 8030255 A 19960202 JP 94162559 A 19940715 199615 B

Priority Applications (No Type Date): JP 94162559 A 19940715
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
JP 8030255 A 9 G09G-005/36

**Pattern and** character **display method for graphic display device...**

**...involves providing pattern and** character **display that is meaningful by comparing with that** stored **in memory**

...Abstract (Basic): of a memory (3) to store the pattern data (OD) containing the pattern and the **character** . The primary pattern data to be displayed is selected from the memory and transferred to a **second** memory (2) by a control operation device (1). A processing unit (OSP) processes the primary pattern data and scale information (C2) to **generate** a pattern type code rate of scale and the dimension of the pattern...

...The pattern and graphic display **ch**aracter obtained by scale **generation** of primary pattern data is compared with the processing information **stored** in the first memory by a processing information **part** (PIF). The judgment of whether the pattern and the **character** is meaningful, when compared to the data **stored** in the first memory is carried out. The display data (DD) corresponding to each **pixel** is formed from the meaningful judged data. The display data thus formed is displayed by...

...ADVANTAGE - Provides effective display at high speed. Provides legible and **reduced** pattern display in short time...
...Title Terms: **CHARACTER** ;

**27/3,K/5 (Item 5 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


010493305 **Image available**
WPI Acc No: 1995-394625/199551
Related WPI Acc No: 1991-289758
XRPX Acc No: N95-287762
**Colour image processing apparatus for example laser printer - inputs image information and converts it to dot information for each colour component which is** stored **in memory and buffered, it is read out from buffer and fed to image former in synchronisation with synchronisation signal**
Patent Assignee: CANON KK (CANO )
Inventor: KASHIHARA A; KATAOKA H; OHTAKE M; SAKAKI E; SETO K; TORISAWA A; UENO F; ITO Y
Number of Countries: 005 Number of Patents: 006
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 683601 | A2 | 19951122 | EP 95113500 | A | 19910328 | 199551 | B |
| EP 683601 | A3 | 19960327 | EP 91105075 | A | 19910328 | 199624 | |
| | | | EP 95113500 | A | 19910328 | | |
| US 5596426 | A | 19970121 | US 91675278 | A | 19910326 | 199710 | |
| | | | US 93139050 | A | 19931021 | | |
| | | | US 94263408 | A | 19940621 | | |
| | | | US 95479466 | A | 19950607 | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| US 5629781 | A | 19970513 | US 91675278 | A | 19910326 | 199725 |
| | | | US 93139050 | A | 19931021 | |
| | | | US 94263408 | A | 19940621 | |
| | | | US 95475497 | A | 19950607 | |
| EP 683601 | B1 | 20020213 | EP 91105075 | A | 19910328 | 200212 |
| | | | EP 95113500 | A | 19910328 | |
| DE 69132933 | E | 20020321 | DE 632933 | A | 19910328 | 200227 |
| | | | EP 95113500 | A | 19910328 | |

Priority Applications (No Type Date): JP 90199480 A 19900726; JP 9086164 A 19900330

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| EP 683601 | A2 | E | 43 | H04N-001/64 | |
| Designated States (Regional): DE FR GB IT | | | | | |
| EP 683601 | A3 | | | | Div ex application EP 91105075 |
| US 5596426 | A | | 40 | H04N-001/46 | Cont of application US 91675278 |
| | | | | | Cont of application US 93139050 |
| | | | | | Cont of application US 94263408 |
| US 5629781 | A | | 40 | H04N-001/54 | Cont of application US 91675278 |
| | | | | | Cont of application US 93139050 |
| | | | | | Div ex application US 94263408 |
| EP 683601 | B1 | E | | G06K-015/00 | Div ex application EP 91105075 |
| | | | | | Div ex patent EP 449313 |
| Designated States (Regional): DE FR GB IT | | | | | |
| DE 69132933 | E | | | G06K-015/00 | Based on patent EP 683601 |

... **inputs image information and converts it to dot information for each colour component which is** stored **in memory and buffered, it is read out from buffer and fed to image former**...

...Abstract (Basic): the image information into dot information for each colour component. The converted dot information is **stored** in memory (2 and 3). The dot information read from the memory is buffered (31...

...former in synchronisation with a synchronising signal from the image former. The converter includes a **second** memory for storing a bitmap or outline **font** corresp. to a text code...

...printer for forming images of several colours based on image signals transmitted from host computer **stored** in auxiliary **storage** disk...

...ADVANTAGE - Transmits image continuously at high speed asynchronously with printer output. Cost is **reduced** by **reducing** memory cost, and processing images at high speed...

...Abstract (Equivalent): a plurality of **storage** means, each for storing image data corresponding to plural **portions** , each of which includes a plurality of **pixels** , in one page...

...a plurality of read means for respectively reading out the image data corresponding to different **portions** from said plurality of **storage** means in parallel; and...

...output means for receiving the image data corresponding to the plurality of the **portions** which are in parallel read out from said plurality of **storage** means by said plurality of read means, and serially outputting the image data as one...

...wherein each **portion** read in parallel by said plurality of read means is different from one **another** .

...

...A color image processing apparatus for receiving code data supplied from an external apparatus, **generating** dotted image data based on the code data, and outputting the dotted image data, comprising...

...image data **generating** means for **generating** dotted image data for each color component based on the code data...

... **storage** means for storing the dotted image data for one page...

...means capable of buffering one scan line of the dotted image data read from said **storage** means
...Title Terms: **STORAGE** ;

**27/3,K/6 (Item 6 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

009703323 **Image available**
WPI Acc No: 1993-396876/199350
Related WPI Acc No: 1996-457205; 1998-389700; 2001-543085
XRPX Acc No: N93-306755
**Label printing appts. - stores** font **data for number of** characters **and determines printing and displaying sizes according to appropriate scaling factors**
Patent Assignee: ESSELTE DYMO NV (ESSP ); ESSELTE NV (ESSP )
Inventor: BEADMAN M A; MARTIN P
Number of Countries: 006 Number of Patents: 012
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 574225 | A1 | 19931215 | EP 93304435 | A | 19930608 | 199350 | B |
| AU 9340047 | A | 19931216 | AU 9340047 | A | 19930604 | 199406 | |
| AU 666940 | B | 19960229 | AU 9340047 | A | 19930604 | 199616 | |
| AU 9650839 | A | 19960711 | AU 9340047 | A | 19930604 | 199635 | |
| | | | AU 9650839 | A | 19960423 | | |
| DE 9321292 | U1 | 19970109 | DE 93U21292 | U | 19930608 | 199707 | |
| | | | EP 96110283 | A | 19930608 | | |
| US 5595450 | A | 19970121 | US 9371120 | A | 19930602 | 199710 | |
| EP 574225 | B1 | 19970219 | EP 93304435 | A | 19930608 | 199713 | |
| DE 69308173 | E | 19970327 | DE 608173 | A | 19930608 | 199718 | |
| | | | EP 93304435 | A | 19930608 | | |
| AU 682129 | B | 19970918 | AU 9340047 | A | 19930604 | 199746 | |
| | | | AU 9650839 | A | 19960423 | | |
| US 5733051 | A | 19980331 | US 9371120 | A | 19930602 | 199820 | |
| | | | US 96692664 | A | 19960806 | | |
| US 5967679 | A | 19991019 | US 9371120 | A | 19930602 | 199950 | |
| | | | US 96692664 | A | 19960806 | | |
| | | | US 9846633 | A | 19980324 | | |
| US 6079889 | A | 20000627 | US 9371120 | A | 19930602 | 200036 | |
| | | | US 96692664 | A | 19960806 | | |
| | | | US 9846635 | A | 19980324 | | |

Priority Applications (No Type Date): GB 93748 A 19930115; GB 9212439 A 19920611
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| EP 574225 | A1 | E | 13 | B41J-003/46 | |

Designated States (Regional): DE FR GB IT

| | | | | |
|---|---|---|---|---|
| AU 9340047 | A | | G06K-015/02 | |
| AU 666940 | B | | G06K-015/02 | Previous Publ. patent AU 9340047 |
| AU 9650839 | A | | G06K-015/02 | Div ex application AU 9340047 |
| DE 9321292 | U1 | 44 | B41J-002/325 | Application no. EP 96110283 |
| US 5595450 | A | 12 | B41J-003/46 | |
| EP 574225 | B1 E | 17 | B41J-003/46 | |
| Designated States (Regional): DE FR GB IT | | | | |
| DE 69308173 | E | | B41J-003/46 | Based on patent EP 574225 |
| AU 682129 | B | | G06K-015/02 | Div ex application AU 9340047<br>Previous Publ. patent AU 9650839 |
| US 5733051 | A | 11 | B41J-003/46 | Cont of application US 9371120 |
| US 5967679 | A | | B41J-011/26 | Cont of application US 9371120<br>Div ex application US 96692664<br>Cont of patent US 5595450<br>Div ex patent US 5733051 |
| US 6079889 | A | | B41J-011/26 | Cont of application US 9371120<br>Cont of application US 96692664<br>Cont of patent US 5595450<br>Cont of patent US 5733051 |

... **stores** font **data for** number of characters **and determines printing and displaying sizes according to appropriate scaling factors**

...Abstract (Basic): The label printing apparatus includes a keyboard for selecting **characters** for composing a label to be printed, display for the **characters** selected, and a printer for printing the **characters** on an image receiving tape to **produce** a label. The printing apparatus further comprises a memory for **font** data defining a number of **characters** and a controller for recalling **font** data for **characters** selected at the keyboard...

...The controller is operable to apply a first scaling factor to the **font** data to **produce** **pixel** data for driving the display, and a **second** scaling factor to **produce** **pixel** data for driving the printer. The **font** data is Bezier data, defining Bezier **points** for lines and curves of the **character** .

...

...ADVANTAGE - Provides wider range of **character** sizes for printing or displaying which is continuously scalable allowing label to be **reduced** in size while maintaining its proportions

...Abstract (Equivalent): A label printing apparatus comprising: input means (106) for selecting **characters** for composing a label to be printed; display means (108) for displaying the **characters** selected at the input means (106); printing means (16) for printing said **characters** on an image receiving tape (4) to **produce** a label; **storage** means (102) for storing common **font** data defining a plurality of **characters** ; and a controller (100) for recalling common **font** data for **characters** selected at said input means (106) and operable to apply a first scaling factor to said common **font** data to **produce** display **pixel** data for driving the display means (108) to display the **character** and a **second** scaling factor to said **font** data to **produce** print **pixel** data for driving said printing means (16) to print the **character** whereby the **characters** displayed on the display means (108) resemble the **characters** which are printed by the printing means (16) and differ only in their resolution...

...Abstract (Equivalent): input means for selecting **characters** for composing a label to be printed...

...display means for displaying the **characters** selected at the input

means...

...printing means for printing said **characters** on an image receiving tape to define a label...

...cutting means for cutting off a **portion** of said image receiving tape including said label...

... **storage** means for storing common **font** data defining each of a plurality of **characters** ; and...

...a controller for recalling said common **font** data for each **character** selected at said input means and operable to apply a first scaling factor to said common **font** data to **produce** display **pixel** data for driving the display means to display the **character** and a **second** scaling factor to said **font** data to **produce** print **pixel** data for driving said printing means to print the **character** whereby the **characters** displayed on the display means exactly resemble the **characters** which are printed by the printing means and differ only in their resolution

...Title Terms: **STORAGE** ;

**27/3,K/7 (Item 7 from file: 350)**



009082218 **Image available**
WPI Acc No: 1992-209635/199226
XRPX Acc No: N92-158995

**Display control circuit and external memory for TV games - stores picture and mask data in memory and** generates **masking signal for range of position data and uses signal to gate picture data**

Patent Assignee: NINTENDO CO LTD (NINT ); RICOH KK (RICO )
Inventor: NISHIUMI S; OTAKE M; OTSUKI T; TAKAHASHI T
Number of Countries: 009 Number of Patents: 011
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 491468 | A2 | 19920624 | EP 91310575 | A | 19911115 | 199226 | B |
| AU 9187933 | A | 19920521 | AU 9187933 | A | 19911115 | 199229 | |
| CA 2055702 | A | 19920518 | CA 2055702 | A | 19911115 | 199232 | |
| EP 491468 | A3 | 19950426 | EP 91310575 | A | 19911115 | 199545 | |
| AU 668500 | B | 19960509 | AU 9187933 | A | 19911115 | 199626 | |
| US 5587723 | A | 19961224 | US 91792196 | A | 19911113 | 199706 | |
| | | | US 94226891 | A | 19940413 | | |
| CA 2055702 | C | 19970527 | CA 2055702 | A | 19911115 | 199733 | |
| EP 491468 | B1 | 19970813 | EP 91310575 | A | 19911115 | 199737 | |
| DE 69127269 | E | 19970918 | DE 627269 | A | 19911115 | 199743 | |
| | | | EP 91310575 | A | 19911115 | | |
| JP 3073519 | B2 | 20000807 | JP 90312410 | A | 19901117 | 200042 | |
| KR 237238 | B1 | 20000115 | KR 9120759 | A | 19911118 | 200114 | |

Priority Applications (No Type Date): JP 90312410 A 19901117
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| EP 491468 | A2 | E | 18 | G09G-005/14 | |
| Designated States (Regional): DE FR GB SE | | | | | |
| AU 9187933 | A | | | G06F-003/153 | |
| CA 2055702 | A | | | G09G-005/36 | |
| EP 491468 | A3 | | | G09G-005/14 | |

| | | | | |
|---|---|---|---|---|
| AU 668500 | B | | G06F-003/153 | Previous Publ. patent AU 9187933 |
| US 5587723 | A | 17 | G09G-001/16 | Cont of application US 91792196 |
| CA 2055702 | C | | G09G-005/36 | |
| EP 491468 | B1 E | 20 | G09G-005/14 | |
| Designated States (Regional): DE FR GB SE | | | | |
| DE 69127269 | E | | G09G-005/14 | Based on patent EP 491468 |
| JP 3073519 | B2 | 14 | G09G-005/36 | Previous Publ. patent JP 4182698 |
| KR 237238 | B1 | | G09G-005/36 | |

... **stores picture and mask data in memory and** generates **masking signal for range of position data and uses signal to gate picture data**

...Abstract (Basic): The display control circuit includes an external memory in which position data representing two **points** in a horizontal direction on a screen are **stored** together with still picture pattern data and **character** data. A counter is incremented for each dot or **pixel** on the screen. A masking signal is obtained in a range where each of the...

...windows of complex shape. Allows window to appear instantaneously. No need to update screen RAM. **Reduced** burden on CPU...

...Abstract (Equivalent): scan monitor while masking a range of the screen, the control apparatus comprising: picture data **generating** means for **generating** picture data; first position data **generating** means for **generating** first position data representing two **points** in a horizontal direction on the screen; **second** position data **generating** means for **generating** **second** position data representing two other **points** in a horizontal direction on the screen; first mask signal **generating** means for **generating** a first mask signal in accordance with the first position data during horizontal scanning of the raster scan monitor; **second** mask signal **generating** means for **generating** a **second** mask signal in accordance with the **second** position data; selecting means for selecting any one of a plurality of logical operations of the first mask signal and the **second** mask signal; third mask signal **generating** means for **generating** a third mask signal by performing one of the plurality of logical operations being selected by the selecting means; gating means coupled to the picture data **generating** means for gating the picture data received from the picture data **generating** means in accordance with the third mask signal; and video signal **generating** means for converting the picture data gated by the gating means into a video signal...

...Abstract (Equivalent): for displaying a picture on a screen of a raster scan monitor while masking a **portion** of said screen, said control apparatus comprising...

...a position data output device for **generating** position data representing two **points** in a horizontal direction on said screen...

...means for **changing** the position data of the two **points** between two or more horizontal lines on said screen...

...a picture data **generator** for **generating** picture data including means for **generating** moving object picture data and means for **generating** background picture data...

...a mask signal **generator** for **generating** a mask signal in accordance with said position data during horizontal scanning of said raster...

...a logic gate connected to said priority circuit and said mask signal **generator** for gating said picture data received from said priority

circuit in accordance with said mask...

...a video signal **generator** for converting the picture data gated by said logic gate into a video signal compatible...

...wherein said means for **changing** **changes** the shape of the masked screen **portion** by **changing** the position data of the two **points** between two or more horizontal lines on said screen...
...Title Terms: **STORAGE** ;

**27/3,K/8 (Item 8 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


009056476 **Image available**
WPI Acc No: 1992-183867/199222
XRPX Acc No: N92-138713
**Computer system for recognition of handwritten digits - locates predetermined** pixel **group such as zip code from address block in digital** pixel **image representing columns and rows**
Patent Assignee: ENVIRONMENTAL RES INST MICHIGAN (ENVI-N)
Inventor: MCCUBBREY D L
Number of Countries: 002 Number of Patents: 005
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 9208203 | A1 | 19920514 | WO 91US3624 | A | 19910523 | 199222 | B |
| US 5216725 | A | 19930601 | US 90606578 | A | 19901031 | 199323 | |
| EP 555227 | A1 | 19930818 | EP 91915082 | A | 19910523 | 199333 | |
| | | | WO 91US3624 | A | 19910523 | | |
| JP 6501800 | W | 19940224 | JP 91514410 | A | 19910523 | 199413 | |
| | | | WO 91US3624 | A | 19910523 | | |
| US 5544259 | A | 19960806 | US 90606578 | A | 19901031 | 199637 | |
| | | | US 9339813 | A | 19930329 | | |
| | | | US 94272949 | A | 19940711 | | |
| | | | US 95541938 | A | 19951010 | | |

Priority Applications (No Type Date): US 90606578 A 19901031; US 9339813 A 19930329; US 94272949 A 19940711; US 95541938 A 19951010
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 9208203 | A1 | E | 37 | G06K-009/36 | |
| US 5216725 | A | | 12 | G06K-009/34 | |
| EP 555227 | A1 | E | | G06K-009/36 | Based on patent WO 9208203 |
| JP 6501800 | W | | | G06K-009/72 | Based on patent WO 9208203 |
| US 5544259 | A | | 11 | G06K-009/34 | Div ex application US 90606578<br>Cont of application US 9339813<br>Cont of application US 94272949<br>Div ex patent US 5216725 |

... **locates predetermined** pixel **group such as zip code from address block in digital** pixel **image representing columns and rows**

...Abstract (Basic): calculates inter stroke distances and image strokes are thinned to enhance vertical line sepn. The **characters** are grouped into blocks, based on their separations, and the blocks skeletonised into lines extending...
...horizontal length of each block. The resulting images are dilated in a vertical direction to **create** box areas of uniform vertical thickness ...

...Abstract (Equivalent): A computer system for locating a predetermined group of **characters** from a plurality of handwritten **characters** characterized by a plurality of spaced, horizontally aligned, vertical strokes, said **characters** being chosen from a digital **pixel** image consisting of foreground **pixels** and background **pixels** set forth in an array of columns and row, said foreground image **pixels** defining said **characters** , said computer system comprising...

...means for assigning each of said plurality of **characters** to one of a plurality of discrete **character** lines...

...means for selecting a desired discrete **character** line from said plurality of discrete **character** lines...

...scanning means for **generating** a digital data stream corresponding to individual **pixels** of said digital **pixel** image...

...means for storing sequential **portions** of said digital data stream in a two-dimensional array...

...means for recognizing from said **stored** data array contiguous foreground image **pixels** corresponding to vertical strokes and defining adjacent pairs thereof...

...means for grouping the plurality of **characters** together into blocks based on the interstroke distance and on a **second** or subsequent peak of said histogram corresponding to a wider horizontal distance between said **characters** , said **characters** being separated by the interstroke distance and said blocks being separated by the wider distance...

...means for selecting said predetermined group of **characters** from those grouped **character** blocks associated with said selected discrete **character** line by using said interstroke distance...

...large enough to contain a ZIP code based on bounding box size is then selected. **Alternate** splits of words are formed and the best split is selected in which the last...
...Title Terms: **PIXEL** ;

**27/3,K/9 (Item 9 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


009040715 **Image available**
WPI Acc No: 1992-168073/199221
XRPX Acc No: N92-126648
**Display and transfer of graphical information - using combined matrix display and input matrix panel and storing position of writing element in memory for direct transfer to controller for** pixel **display**
Patent Assignee: TELENORMA GMBH (TELN )
Inventor: FREITAG O; ZANELLA R
Number of Countries: 001 Number of Patents: 002
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| DE 4035899 | A | 19920514 | DE 4035899 | A | 19901112 | 199221 | B |
| DE 4035899 | C2 | 19930902 | DE 4035899 | A | 19901112 | 199335 | |

Priority Applications (No Type Date): DE 4035899 A 19901112
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| DE 4035899 | A | | 5 | G06F-003/03 | |
| DE 4035899 | C2 | | 5 | G06F-003/033 | |

... **panel and storing position of writing element in memory for direct transfer to controller for** pixel **display**

...Abstract (Basic): a coordinate plate (4) with conductors for x and y directions on both sides. At **points** excited by x and y drive signals, a **change** in temperature occurs and the display is activated. The signals are **generated** by the image memory (SP...

...A **second** coordinate plate (8) is separated from the display and responds to a non-contact writing...

...Abstract (Equivalent): The tactile display, for simultaneous display and transmission of hand-written **characters** , has coordinate conductor paths for electronically sensing the writing movement of a pen, the corresponding...

...to the display control (AZ-ST). This controls the coordinate voltages supplied to intersecting display **points** , to provide **point** heating of a heat-sensitive display foil (1) exhibiting light transparency variations at the heated points , for displaying the written **character** .

...Title Terms: **STORAGE** ;

**27/3,K/10 (Item 10 from file: 350)**

DIALOG(R)File 350:Derwent WPIX


008456379 **Image available**
WPI Acc No: 1990-343379/199046
Related WPI Acc No: 1990-343380; 1990-343384
XRPX Acc No: N95-048183

**Digital colour image processing system - controls processing unit to preferentially execute high-resolution processing for area where colour and binary images overlap each other**

Patent Assignee: CANON KK (CANO )
Inventor: ICHIKAWA H; IKEDA Y; KITAMURA T; KURITA M; SUZUKI Y; KATO K; KATOH K
Number of Countries: 006 Number of Patents: 018
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 397428 | A | 19901114 | EP 90304905 | A | 19900504 | 199046 | B |
| JP 2294161 | A | 19901205 | JP 89115685 | A | 19890508 | 199104 | |
| JP 2294880 | A | 19901205 | | | | 199104 | |
| JP 2295344 | A | 19901206 | JP 89117001 | A | 19890510 | 199104 | |
| JP 2295353 | A | 19901206 | JP 89117054 | A | 19890510 | 199104 | |
| JP 3072780 | A | 19910327 | | | | 199119 | |
| JP 3072781 | A | 19910327 | JP 89296788 | A | 19891114 | 199119 | |
| US 5206719 | A | 19930427 | US 90519272 | A | 19900504 | 199318 | |
| EP 397428 | A3 | 19920610 | EP 90304905 | A | 19900504 | 199332 | |
| EP 397433 | A3 | 19920805 | EP 90304914 | A | 19900504 | 199336 | |
| US 5381248 | A | 19950110 | US 90519498 | A | 19900504 | 199508 | |
| | | | US 93117657 | A | 19930908 | | |
| EP 397428 | B1 | 19970129 | EP 90304905 | A | 19900504 | 199710 | |
| DE 69029821 | E | 19970313 | DE 629821 | A | 19900504 | 199716 | |
| | | | EP 90304905 | A | 19900504 | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| US 5617224 | A | 19970401 | US 90519840 | A | 19900504 | 199719 |
| | | | US 92936723 | A | 19920831 | |
| | | | US 94191146 | A | 19940203 | |
| EP 397433 | B1 | 19970416 | EP 90304914 | A | 19900504 | 199720 |
| JP 9172544 | A | 19970630 | JP 89296788 | A | 19891114 | 199736 |
| | | | JP 96303030 | A | 19891114 | |
| US 5940192 | A | 19990817 | US 90519840 | A | 19900504 | 199939 |
| | | | US 92936723 | A | 19920831 | |
| | | | US 94191146 | A | 19940203 | |
| | | | US 95477544 | A | 19950607 | |
| JP 3015308 | B2 | 20000306 | JP 89296788 | A | 19891114 | 200016 |
| | | | JP 96303030 | A | 19891114 | |

Priority Applications (No Type Date): JP 89296788 A 19891114; JP 89115685 A 19890508; JP 89117001 A 19890510; JP 89117007 A 19890510; JP 89117010 A 19890510; JP 89117054 A 19890510; JP 89117055 A 19890510; JP 89138941 A 19890531; JP 96303030 A 19891114

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| EP 397428 | A | | 156 | | |
| Designated States (Regional): FR GB IT | | | | | |
| JP 3015308 | B2 | | 73 | H04N-001/40 | Div ex application JP 89296788<br>Previous Publ. patent JP 9172544 |
| US 5206719 | A | | 156 | H04N-001/46 | |
| EP 397428 | A3 | | 156 | | |
| EP 397433 | A3 | | 156 | | |
| US 5381248 | A | | 146 | H04N-001/46 | Cont of application US 90519498 |
| EP 397428 | B1 | E | 153 | H04N-001/387 | |
| Designated States (Regional): DE FR GB IT | | | | | |
| DE 69029821 | E | | | H04N-001/387 | Based on patent EP 397428 |
| US 5617224 | A | | 156 | H04N-001/58 | Cont of application US 90519840<br>Cont of application US 92936723 |
| EP 397433 | B1 | E | 169 | H04N-001/387 | |
| Designated States (Regional): DE FR GB IT | | | | | |
| JP 9172544 | A | | 73 | H04N-001/40 | Div ex application JP 89296788 |
| US 5940192 | A | | | H04N-001/46 | Cont of application US 90519840<br>Cont of application US 92936723<br>Div ex application US 94191146<br>Div ex patent US 5617224 |

...Abstract (Basic): stores the binary image and a device binarises the input colour image which is also **stored** in the memory...

...ADVANTAGE - Improved reproducibility of black **character** and simple structure. (156pp Dwg.No.1/76)

...Abstract (Equivalent): A colour image forming apparatus comprising: means (A) for **generating** colour component data (100-102); processing means (B-G) for processing the colour component data...

...for inputting first image data representing a first image which can include both halftone and **character** image **portions** ; **second** input means (M) for inputting **second** image data representing a **second** image; and synthesizing means (F) for synthesizing the first image data and the **second** image data outputting synthesized image data representing a synthesized image which is a combination of first and **second** image data, characterised in that the apparatus further comprises: means (I) for detecting **character portions** in the first image based on the first image data and **generating** a control signal (140) for controlling the resolution with which the **character portions** of the image are reproduced so that the resolution with which

the **character portions** are reproduced is higher than the resolution with which the halftone image **portions** of the image are reproduced, and control mens (502) for making the control signal non-effective within any region of the synthesized image which includes the **second** image...

...Abstract (Equivalent): image represented by the mosaic-processed image data is lower than the predetermined resolution without **changing** either a size of the image or a number of **pixels** for the image, and, in the normal processing mode, outputs processed image data so that...

...The, image processing apparatus has a colour image signal input and extractor for the outline **portion** from the colour image signal. An output remover the colour image signal in an area other than the outline **portion** and outputs the colour image signal representing the extracted outline **portion** in multi-colors based on the input colour image signal. ADVANTAGE - Can easily obtain desired...

**27/3,K/11 (Item 11 from file: 350)**



008404707 **Image available**
WPI Acc No: 1990-291708/199039
XRPX Acc No: N90-224580

**Printed** character **texture discrimination - using discriminant function for discrimination of** characters **against any background**

Patent Assignee: HITACHI LTD (HITA )
Inventor: MATSUSHIMA H; SAKOU H
Number of Countries: 003 Number of Patents: 005
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---|---|---|---|---|---|---|
| EP 388725 | A | 19900926 | EP 90104476 | A | 19900308 | 199039 B |
| EP 388725 | A3 | 19920812 | EP 90104476 | A | 19900308 | 199336 |
| US 5448651 | A | 19950905 | US 90496228 | A | 19900320 | 199541 |
| | | | US 94267552 | A | 19940621 | |
| EP 388725 | B1 | 19960904 | EP 90104476 | A | 19900308 | 199640 |
| DE 69028332 | E | 19961010 | DE 628332 | A | 19900308 | 199646 |
| | | | EP 90104476 | A | 19900308 | |

Priority Applications (No Type Date): JP 8966122 A 19890320
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 5448651 | A | | 9 | G06K-009/34 | Cont of application US 90496228 |
| EP 388725 | B1 | E | 17 | G06K-009/20 | |
| Designated States (Regional): DE GB | | | | | |
| DE 69028332 | E | | | G06K-009/20 | Based on patent EP 388725 |

**Printed** character **texture discrimination**...

...**using discriminant function for discrimination of** characters **against any background**

...Abstract (Basic): analyses the projection profile of the grey image background and sets a learning area A. **Another** learning area B consists of the printed **characters** together with **part** of the background. A discriminant function voltage Va and Vb as variables corresponding to learning...

...respectively, determines the output values of the voltages in order to

correctly discriminate between the **characters** and background...

...The discriminant function **produces** non-overlapping areas. The function is iteractive using Lag range's method of indeterminate coefficients. Average **pixel** density is determined...
...USE/ADVANTAGE - E.g. to discriminate text and photograph opens in newspaper information **storage** system. Reliable. Retrieval of contents is easier when document is **stored** as an image...
...Abstract (Equivalent): first learning area (A) to an area containing only one kind of texture and a **second** learning areas (B) containing the other kind of texture by a first step of **producing** **pixel** density projecting profiles of said image in X- and Y-directions, a **second** step of determining a first range (La) in the **pixel** density projection profiles having a small degree of ruggedness and a **second** range (Lb) in said **pixel** density projection profiles having a conspicuous degree of ruggedness, and a third step of setting...

...first learning areas (A) to the area corresponding to the first range (La) and the **second** learning area (Lb) to the area corresponding to the **second** range (Lb); determining a discriminant function, having as variables, the **pixel** densities in the vicinity of a **pixel** being processed, such that the output values of said discriminant function for the **pixels** of said learning areas (A, B) from profiles having average values (Va, Vb) for each...

...of the dispersion values of the two profiles for the learning areas (A, B) is **smaller** than a predetermined value (S); and discriminating with the determined discriminant function the areas containing...

...other kind of texture by comparing the output values of said discriminant function for the **pixels** of the image with the profiles of the learning areas (A, B...
...Abstract (Equivalent): To reliably discriminate the **characters** only from the headlines having any background textures, the projection profile of a grey image...

...area. A learning area (B) in the area that includes background texture of a central **portion** and **characters** is set. A discriminant function having, as variables, characteristics that use **pixel** densities in the vicinity of a **pixel** which is processed so that output values of the discriminant function at each of the...

...The sum of dispersion values of the two profiles becomes **smaller** than a predetermined value, in order to discriminate in which area is included the **pixel** which is processed in the headline area. It is determined in which area of the background pattern or the **characters** the **pixel** is included depending upon whether the output value of the discriminant function is close to the value (Va) or to the value (Vb) for each of the **pixels** in the headline area, in order to discriminate the headline area into areas...
...Title Terms: **CHARACTER** ;

**27/3,K/12 (Item 12 from file: 350)**


008381075 **Image available**
WPI Acc No: 1990-268076/199035
XRPX Acc No: N90-207432

**Digital data transmission system - stores** portions **of incoming data packet while it is still being received from data source and extracts framing** characters

Patent Assignee: EASTMAN KODAK CO (EAST )
Inventor: WIND A S; WIND A G
Number of Countries: 010 Number of Patents: 006
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 4949175 | A | 19900814 | US 89381904 | A | 19890719 | 199035 | B |
| WO 9101607 | A | 19910207 | | | | 199108 | |
| EP 434815 | A | 19910703 | EP 90911076 | A | 19900719 | 199127 | |
| JP 4500894 | W | 19920213 | JP 90510472 | A | 19900719 | 199213 | |
| EP 434815 | B1 | 19950906 | EP 90911076 | A | 19900719 | 199540 | |
| | | | WO 90US4053 | A | 19900719 | | |
| DE 69022195 | E | 19951012 | DE 622195 | A | 19900719 | 199546 | |
| | | | EP 90911076 | A | 19900719 | | |
| | | | WO 90US4053 | A | 19900719 | | |

Priority Applications (No Type Date): US 89381904 A 19890719
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 9101607 | A | | | | |
| Designated States (Regional): AT BE CH DE DK ES | | | | | |
| EP 434815 | A | | | | |
| Designated States (Regional): DE FR GB | | | | | |
| JP 4500894 | W | | 6 | | |
| EP 434815 | B1 | E | 15 | H04N-001/00 | Based on patent WO 9101607 |
| Designated States (Regional): DE FR GB | | | | | |
| DE 69022195 | E | | | H04N-001/00 | Based on patent EP 434815 |
| | | | | | Based on patent WO 9101607 |

... **stores** portions **of incoming data packet while it is still being received from data source and extracts framing** characters

...Abstract (Basic): The appts. increased includes a means for **storage** of **portions** of the incoming data packet in memory while the data packet is still being received from the data source. The frame **characters** are extracted from the incoming data stream into separate buffers. This allows the next data...

...due to the ability to perform the data validation testing immediately upon receiving the last **character** of the packet...

...USE/ADVANTAGE - Transmitting/receiving digital images from diagnostic imaging source. **Reduces** data transfer time. (13pp Dwg.No. 6/11)

...Abstract (Equivalent): said digital data transmission system includes (I) a means (110,142) for transmitting lines of **characters** , each of which has a start of message **character** (114), a line type **character** (116), a plurality of image data **characters** (118), and an end of line **character** (120), and (II) means for receiving successive lines of **characters** , said means for receiving including an image memory (136) for storing said lines of **characters** ; buffer means (128) for receiving the lines of **characters** and delivering the **characters** to said image memory (136); logic and control means (134) comprising a mode evaluator means (152) for (1) checking the correctness of the start of message **character** , (2) checking to see if the line contains size data, and if so, determining the line size and the number of lines in the image; **pixel** done counter means (144) for counting data **characters** transferred to the image memory and **producing** a signal representing the **character** count in order to **generate** a recorder line signal if the count is incorrect; means (132) for evaluating the parity of each **character** and **generating** a recorder line signal if

parity is violated; and a mode counter (130) for signalling the receipt of an end of line **character** so that the logic and control means (134) controls the transfer of the image data **characters** from the buffer means to the image memory, verifies that a full image is received if the end of line **character** represents an end of image, orders the next line if the end of line **character** is an end of line message or **generates** a recorder signal when a recorder line signal has been **generated** , said system being characterised by a. block counter means (148) for counting **characters** in an incoming line simultaneously with loading the **characters** into the buffer means and **producing** an end of block indication when a predetermined number of **characters** have been received. b. **pixel** counter means (146) for counting all data **characters** loaded into the buffer means (128) and **producing** a signal representing the **character** count, c. mode register means (150) for storing the end of line **character** externally to the buffer means; wherein said logic and control means (134) comprises means responsive ...

...to the signal from the mode counter (130) to determine that an end of line **character** (120) has been received from the mode register (150), in order to retrieve the **character** count from the **pixel** counter means (146), and if the number of **characters** left in the buffer means (128) is less than a predetermined number, **generate** a request for (160) **another** line of data, whereby received data is transferred into the image memory (136) during the...
...Title Terms: **STORAGE** ;

**27/3,K/13 (Item 13 from file: 350)**
DIALOG(R)File 350:Derwent WPIX


008213525 **Image available**
WPI Acc No: 1990-100526/199014
XRPX Acc No: N90-077698
**Data processor for** characters **- allows shape features and series to be** changed **using** stored **information**
Patent Assignee: BROTHER IND CO LTD (BRER ); BROTHER KOGYO KK (BRER )
Inventor: KANEGAE T; KAWAMOTO N; YOSHIDA H
Number of Countries: 004 Number of Patents: 006
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---|---|---|---|---|---|---|
| DE 3932024 | A | 19900329 | DE 3932024 | A | 19890926 | 199014 B |
| GB 2224623 | A | 19900509 | GB 8921723 | A | 19890926 | 199019 |
| FR 2637101 | A | 19900330 | FR 8912569 | A | 19890926 | 199020 |
| US 5018217 | A | 19910521 | US 89410872 | A | 19890922 | 199123 |
| GB 2224623 | B | 19921118 | GB 8921723 | A | 19890926 | 199247 |
| DE 3932024 | C2 | 19970710 | DE 3932024 | A | 19890926 | 199732 |

Priority Applications (No Type Date): JP 899399 A 19890118; JP 88239940 A 19880926
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| DE 3932024 | A | | 32 | | |
| DE 3932024 | C2 | | 31 | | |

**Data processor for** characters **- ...**

...**allows shape features and series to be** changed **using** stored **information**

...Abstract (Basic): on the boundary data that defines the graphical shape of the symbol, e.g. alphabetic **character** , and determines the **point** data for reproduction on such as a laser printer. The system has a **character** ROM that stores the groups of boundary data defining a **character** . For example, the **character** 'F' may be defined by several groups (44,46,50). Sevis are described by separate groups (48) in a **second** room...

...the ROM memories to a programme in a separate ROM. Text entered is evaluated and **point** data determined for the defined **characters** . Values are entered into a RAM to supply a printer...

...ADVANTAGE - Offers improved means of **generating** specific **character** form for various selected printing type.

...Abstract (Equivalent): A data conversion apparatus for converting outline data comprising multiple sets of **segment** data representative of the outline of a **character** , into **pixel** data representative of the **character** , each of said sets of **segment** data representing a corresponding **segment** of said outline of the **character** , said apparatus comprising: means for converting said outline data into said **pixel** data according to a conversion rule, each stroke of said **character** being defined by **pixels** which lie in the outline of said stroke as defined by a predetermined requirement, when said outline of said **character** is superimposed on a **pixel** coordinate space; ornamental end data conversion means operable independently of said conversion rule, for processing ornamental end data comprising at least one of said multiple sets of **segment** data of said outline data which represents an ornamental end **portion** of an ornamented stroke of said **character** , said ornamental end data converting means converting said ornamental end data into a predetermined block of **pixel** data associated with said ornamental end **portion** of said ornamented stroke ...

...Abstract (Equivalent): outline data into dot data according to a conversion rule that each stroke of the **character** is constituted by **picture elements** which lie in an outline of the stroke so as to satisfy a predetermined requirement, when said outline of the **character** is superimposed on a coordinated **pixel** screen...

...rule, for processing ornamental end data comprising at least one of the multiple sets of **segment** data of the outline data which defines a profile of an ornamental end **portion** of an ornamented stroke of the **character** .
...

...data which indicates that the ornamental end data defines the profile of the ornamental end **portion** .
...

...data are converted into a predetermined block of dot data associated with the ornamental end **portion** of the ornamented stroke

...Title Terms: **CHARACTER** ;

**27/3,K/14 (Item 14 from file: 350)**



007485627 **Image available**
WPI Acc No: 1988-119561/198817

Related WPI Acc No: 1988-119562
XRAM Acc No: C88-053660
XRPX Acc No: N88-090824

**Measurement of** partial **pressure of gases in a gas stream - using three optical detector channels and pressure and detectors**

Patent Assignee: NELLCOR INC (NELL-N)
Inventor: BRAIG J R; CORENMAN J E; GALLUP D A; GOLDBERGER D S; RICHARDS E M ; ROJAS E P; STONE J H; COREMAN J E; FROJAS E P
Number of Countries: 016 Number of Patents: 011
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 8802889 | A | 19880421 | WO 87US2889 | A | 19871016 | 198817 | B |
| US 4817013 | A | 19890328 | US 86922043 | A | 19861017 | 198915 | |
| JP 1501568 | W | 19890601 | JP 87507126 | A | 19871016 | 198928 | |
| CA 1316703 | C | 19930427 | CA 549442 | A | 19871016 | 199322 | |
| EP 551142 | A2 | 19930714 | EP 87907697 | A | 19871016 | 199328 | |
| | | | EP 93101050 | A | 19871016 | | |
| EP 551924 | A2 | 19930721 | EP 87907697 | A | 19871016 | 199329 | |
| | | | EP 93101101 | A | 19871016 | | |
| CA 1324638 | C | 19931123 | CA 549442 | A | 19871016 | 199402 | |
| | | | CA 616565 | A | 19930203 | | |
| CA 1331292 | C | 19940809 | CA 549442 | A | 19871016 | 199434 | |
| | | | CA 616561 | A | 19930203 | | |
| CA 1333849 | C | 19950110 | CA 549452 | A | 19871016 | 199511 | |
| DE 3751308 | G | 19950622 | DE 3751308 | A | 19871016 | 199530 | |
| | | | EP 87907697 | A | 19871016 | | |
| | | | WO 87US2758 | A | 19871016 | | |
| EP 551142 | B1 | 19970917 | EP 87907697 | A | 19871016 | 199742 | |
| | | | EP 93101050 | A | 19871016 | | |

Priority Applications (No Type Date): US 86922043 A 19861017
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| WO 8802889 | A | E | 119 | | |
| Designated States (National): DK FI JP | | | | | |
| Designated States (Regional): AT BE CH DE FR GB IT LU NL SE | | | | | |
| US 4817013 | A | | 590 | | |
| EP 551142 | A2 | E | 72 | G01N-001/24 | Related to application EP 87907697 |
| Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE | | | | | |
| EP 551924 | A2 | E | 71 | A61B-005/08 | Related to application EP 87907697 |
| Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE | | | | | |
| CA 1324638 | C | | | A61B-005/08 | Div ex application CA 549442 |
| CA 1331292 | C | | | G01N-001/22 | Div ex application CA 549442 |
| DE 3751308 | G | | | G06F-017/00 | Based on patent EP 289581 |
| | | | | | Based on patent WO 8802890 |
| EP 551142 | B1 | E | 34 | G01N-001/24 | Div ex application EP 87907697 |
| | | | | | Div ex patent EP 289581 |
| Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE | | | | | |
| CA 1316703 | C | | | G06F-015/46 | |
| CA 1333849 | C | | | G01N-021/35 | |

**Measurement of** partial **pressure of gases in a gas stream...**

...Abstract (Basic): inlet to an analyser passes to an optical bench (236) through a flow shaper, to **change** the entering gas flow to a predetermined cross **sectional** shape. In the optical bench (236) three gas detector channel assemblies (304,306,308) are...

...The individual signals of the detectors are modulated and each has an arrangement for determining **changes** in detector sensitivity. The flow rate and barometric pressure within the gas path are measured...

...514). A circuit arrangement takes the detector outputs, pressure, flow rate, and temp. outputs, with **stored** signals representing the characteristics of the optical bench components, to output corrected signals representing the...

...The microprocessor corrects the signals indicative of **partial** gas pressure for temp. **changes** in detector sensitivity, collision broadening, cross correction, barometric pressure, and characterisation of the optical bench...

...USE/ADVANTAGE - Partic. measuring **partial** pressures of constituent gases in respiratory gas streams for an anaesthetised patient mechanically intubated through...

...Abstract (Equivalent): pumping means to the airway adapter (106) and through the inlet filter (232) in a **second** direction that is opposite the first direction the airway adapter including a valve member (226) for restricting reverse fluid flow in the backflush conduit (172), a first **section** (240) having means through which a respiratory gas stream passes, a **second section** (210) fixed in an opening (236) in a sidewall of the first **section** (240) and extending outwardly therefrom the **second section** (210) having a central cavity (212) in fluid communication with the respiratory gas stream passing through the first **section** (240), the valve member (226) disposed in the cavity (212) in the **second section** (210), the valve member (226) having first and **second** means (218, 222) for fluid communications therethrough; the inlet filter (232) disposed across the central...

...adapted to mate in a fluid-tight relationship with the central cavity (212) of the **second section** (210) of the airway adapter (108), and the sampling conduit (174) being in fluid communication...

...in fluid communication with the respiratory gas stream through the coupling member (178) and the **second** means (222) in the valve member (226) when the coupling member (178) is mated with the **second section** (210...

...Abstract (Equivalent): **Partial** pressure of constituent gases in respiratory gas streams are measured in a system in which...

...removed from a patient and passed to a patient module into optical bench and circuitry **generating** signals representing **partial** pressures of CO2 and N2O. Respiratory events are distinguished in a display of a continuous...

...waveform is marked with labels denoting end-tidal events, inspired events, etc. in forms of **characters** . ADVANTAGE - Rapid response time, capable of self-characterisation without calibration...

...processing circuits process the signals output from the analog processing circuits and other system circuitry. **Pixel** logic circuits/analog outputs process signals output from the display processing circuitry, providing analog output

**27/3,K/15 (Item 15 from file: 350)**



007209403
WPI Acc No: 1987-206412/198729

XRPX Acc No: N87-154391

**Transformation circuit to effect raster operations - reads** pixel **values corresp. to source image from array of addresses in bit map memory**

Patent Assignee: NIPPON DIGITAL EQUIP KK (DIGI )

Inventor: FORRESTER N C; ROSE R C

Number of Countries: 018 Number of Patents: 012

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| ZA 8606373 | A | 19870218 | ZA 866373 | A | 19860802 | 198729 | B |
| EP 235471 | A | 19870909 | EP 86401906 | A | 19860829 | 198736 | |
| AU 8661748 | A | 19870903 | | | | 198742 | |
| FI 8603815 | A | 19870829 | | | | 198748 | |
| BR 8604139 | A | 19871117 | | | | 198751 | |
| DK 8604141 | A | 19870829 | | | | 198751 | |
| CN 8606165 | A | 19870909 | | | | 198842 | |
| US 4799173 | A | 19890117 | US 86834600 | A | 19860228 | 198906 | |
| CA 1268870 | A | 19900508 | | | | 199025 | |
| KR 9001964 | B | 19900327 | | | | 199106 | |
| EP 235471 | B1 | 19931124 | EP 86401906 | A | 19860829 | 199347 | |
| DE 3689331 | G | 19940105 | DE 3689331 | A | 19860829 | 199402 | |
| | | | EP 86401906 | A | 19860829 | | |

Priority Applications (No Type Date): US 86834600 A 19860228

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| ZA 8606373 | A | | 41 | | |
| EP 235471 | A | E | | | |
| Designated States (Regional): BE CH DE FR GB IT LI NL SE | | | | | |
| US 4799173 | A | | 16 | | |
| EP 235471 | B1 | E | 24 | G06F-015/62 | |
| Designated States (Regional): BE CH DE FR GB IT LI NL SE | | | | | |
| DE 3689331 | G | | | G06F-015/62 | Based on patent EP 235471 |

... **reads** pixel **values corresp. to source image from array of addresses in bit map memory**

...Abstract (Basic): The source logic circuitry (55) **produces pixel** addresses for reading raster operations data from the source **portion** of the image memory while the drawn and origin vector destination address circuits (15,33) **produce pixel** addresses for writing the data into the destination **portion** of the image memory...

...The **pixel** addresses are sent to address collection circuits (57) where they are buffered, combined with refresh...

...many different transformation between source and destination images, e.g. user can display several different **font** sizes while employing a single **font** resource. (Provisional basic advised week 8722...

...Abstract (Equivalent): A transformation circuit for reading a first plurality of **pixel** values corresponding to a source image from a first array of addresses in a bit map memory having rows and columns of addresses and writing a **second** plurality of **pixel** values corresponding to a transformed version of the source image into a **second** array of addresses in the bit map memory, each address consisting of an X address...

...the destination origin vector being a transformation of the source origin vector, each vector comprising **pixel** values **stored** at a sequence of addresses, an address circuit (59) being connected to the bit map...

...origin vector destination address circuitry (13) for outputting a sequence of addresses at which the **pixel** values representing the destination origin vector are to be **stored** as a function of the X and Y components of the first address and the...

...the origin vector destination address circuitry for outputting a sequence of addresses at which the **pixel** values representing a destination drawn vector are to be **stored** as a function of the address output by the origin vector destination address circuitry and ...

...Y extents of the destination origin vector and connected to output either of first and **second** status signals to the switching circuitry as a function of the result of processing the...

...with a predetermined algorithm, the switching circuitry switching the origin vector destination address circuitry to **generate** a sequence of addresses which substantially lie along a vector which is rotated relata to...

...Y extents of a destination drawn vector and connected to output either of first and **second** status signals to the switching circuitry as a function of the result of processing the...

...with a predetermined algorithm, the switching circuitry switching the drawn vector destination address circuitry to **generate** a sequence of addresses which substantially lie along a vector which is rotated relative to...

...Abstract (Equivalent): The circuitry enables **pixel** signals, which represent information **stored** in a first **section** of a memory (and which information defines an image, or images to be viewed on a CRT display) to be transferred to a different **section** of memory and in the course of the transferal be: expanded or **reduced** in number; and/or rotated, by arbitrary angles from the original orientation of the image; and/or have the holes, or missing **pixels** , which occur because of the rotation by the arbitrary angles filled in, or replaced. (16pp)

...Title Terms: **PIXEL** ;

**27/3,K/16 (Item 16 from file: 350)**



004511833
WPI Acc No: 1986-015177/198603
XRPX Acc No: N86-011150

**Scaleable typeface data** producing **method for display - rounding** character **base line up or down to nearest X-axis grid line which shifts whole** character

Patent Assignee: MILES INC (MILE ); COMPUGRAPHIC CORP (COMP-N)
Inventor: HAWKINS T B

Number of Countries: 005 Number of Patents: 005
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 167838 | A | 19860115 | EP 85107021 | A | 19850607 | 198603 | B |
| US 4675830 | A | 19870623 | US 84628192 | A | 19840706 | 198727 | |
| CN 8504927 | A | 19870107 | | | | 198804 | |
| EP 167838 | B1 | 19931222 | EP 85107021 | A | 19850607 | 199351 | |
| DE 3587690 | G | 19940203 | DE 3587690 | A | 19850607 | 199406 | |

EP 85107021 A 19850607

Priority Applications (No Type Date): US 84628192 A 19840706
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
EP 167838 A E
Designated States (Regional): DE FR GB
EP 167838 B1 E 57 G06F-015/62
Designated States (Regional): DE FR GB
DE 3587690 G G06F-015/62 Based on patent EP 167838

**Scaleable typeface data** producing **method for display**...

...**rounding** character **base line up or down to nearest X-axis grid line which shifts whole** character

...Abstract (Basic): The contour of a **character** to be scaled is divided into selected **segments** . Each **segment** extends between a pair of **points** on the contour of the **character** , the pair of **points** defining two skeletal **points** . These are sub-set of the co-ordinates used to define the contour and are chosen from the list of co-ordinates because these **points** need to be aligned with the output bit-map grid. Next, all the coordinates in each **segment** are offset to bring the corresponding first skeletal **point** into alignment with an output grid.S Each **segment** is then scaled with an appropriate scale factor so as to bring the corresponding **second** skeletal **point** into alignment with the output grid. The **character** base line is rounded up or down to the nearest X-axis grid line, which shifts the whole **character** . The X-height and ascender height are then rounded to the nearest X-axis grid line. All **points** are scaled according to a determined A type Y-class or B-type Y-class...

...ADVANTAGE - Scales typefaces over variety of sizes and output resolutions while maintaining optimal **character** design...

...Abstract (Equivalent): A method of scaling **character database** from an input **database** **stored** in a digitally controlled machine for providing bit-map **font** data for graphic images, said input **database** containing data representative of the coordinates of a plurality of **points** located on at least one continuous, closed loop contour of a **character** , the contour being divided into a plurality of sequentially abutting and ordered scaling **segments** , with each scaling **segment** being located between a pair of **points** on the **character** contour, said pair of **character** contour **points** constituting a first skeletal **point** and a **second** skeletal **point** , said skeletal **points** being a subset of the **character** contour coordinates and each representing an important visual feature of the **character** such as the edge of a stem, or the top the **character** bowl, or the crotch at the intersection of two strokes, whereby said skeletal **points** in the **database** are associated in a tree-like structure, said method comprising the steps of: a) processing said input **database** by offsetting all coordinates in each scaling **segment** to bring the corresponding first skeletal **point** into alignment with an output grid which is a series of horizontal and vertical lines for determining the correct position of the skeletal **points** , b) processing further the coordinates of the scaling **segments** by linearly scaling each scaling **segment** with a scale factor that brings the corresponding **second** skeletal **point** into alignment with the output grid, whereby the skeletal **points** are X- and Y-skeletal **points** and these **points** align properly when the Y-and X-values are evenly divisible by a Y- and X- **pixel** dimension,

respectively, and whereby said offsetting and said scaling are done such that as a skeletal **point** is shifted the associated skeletal **points** in the direction towards the branches of the tree are shifted the same amount but the skeletal **points** towards the root of the tree are not **altered** .

(

...Abstract (Equivalent): The continuous, closed loop contour of the **character** is divided into a number of sequentially abutting and ordered scaling **segments** with each scaling **segment** being located between a pair of **points** on the **character** contour. The pair of **character** contour **points** constitute two skeletal **points** .

...

...All coordinates in each scaling **segment** are offset to bring the corresp. first skeletal **point** into alignment with an output grid. Each scaling **segment** is linearly scaled with a scale factor that brings the corresp. **second** skeletal **point** into alignment with the output grid. (27pp)

...Title Terms: **PRODUCE** ;

**27/3,K/17 (Item 17 from file: 350)**

DIALOG(R)File 350:Derwent WPIX



004321212

WPI Acc No: 1985-148090/198525

XRPX Acc No: N85-111726

**Halo** generation **for CRT display - uses logic circuit to** alter **video intensity at specific** points **on display** generation

Patent Assignee: HONEYWELL INC (HONE ); SPERRY CORP (SPER )

Inventor: HILBURN H C; JOHNSON M J

Number of Countries: 007 Number of Patents: 006

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 145181 | A | 19850619 | EP 84307141 | A | 19841017 | 198525 | B |
| DK 8405071 | A | 19850519 | | | | 198536 | |
| US 4570182 | A | 19860211 | US 83553223 | A | 19831118 | 198609 | |
| IL 73402 | A | 19880630 | | | | 198835 | |
| EP 145181 | B | 19910522 | | | | 199121 | |
| DE 3484613 | G | 19910627 | | | | 199127 | |

Priority Applications (No Type Date): US 83553223 A 19831118

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| EP 145181 | A | E | 24 | | |
| | Designated States (Regional): DE FR GB IT | | | | |
| EP 145181 | B | | | | |
| | Designated States (Regional): DE FR GB IT | | | | |

**Halo** generation **for CRT display**...

...**uses logic circuit to** alter **video intensity at specific** points **on display** generation

...Abstract (Basic): The video halo **generator** is incorporated in a video display system using a **picture element** matrix to form **characters** on the screen in response to a set of coordinates **generated** to represent a particular **character** and used to modulate the video signal to form the required image. The video bit signals are **stored**

in memory and the memory scanned to locate a **character** which is to be highlighted...

...processor, which responds to the logic level obtained from scanning of the screen bit map, **reducing** the background intensity to half the normal level if a logic one is obtained, **producing** a flicker free halo round the **character** .

...

...ADVANTAGE - Allows a **character** printed onto a screen image to be highlighted by the presence of a halo round the **character** to facilitate visual location and reading of the **character** .

...Abstract (Equivalent): Apparatus for **generating** a halo about symbols in video display means, comprising: Means (41) for displaying video data comprising a matrix of **picture elements** , denoted P, x, y; and means for illuminating the **picture elements** in response to applied signals; means (40), coupled to the video display means, for **generating picture element** coordinates, for providing signals representative of those coordinates, and for synchronising the illuminating means with the coordinates; means (43) having addresses corresponding to the **picture elements** , for storing video bit signals, denoted Bx,y; means (42) coupled to the **storage** means and to the coordinate **generating** means, for reading, in response to a signal from the coordinate geenrating means representing a **generated** coordinate i, j, the addresses corresponding to **picture elements** P i-1, j-1 ; Pi,j-1 ; Pi,J+1' ; Pi-1,j ; Pi...

...1 ; and PI+1, J+1 ; means (44), coupled to the address reading means for **generating** a digital signal:- sum Bx, y, Bi,j (bar) the summation representing a Boolean OR, and the **product** representing a Boolean AND, means (46), coupled to the coordinate **generating** means for **generating** , in response to a signal from the coordinate **generating** means representative of the **generated** coordinate i, j, a video background signal for **producing** a predetermined intensity of illumination of the **picture element** Pi, j ; means (45) coupled to the video display means (41), the digital signal **generating** means (44), and the video background signal **generating** means (46), for **generating** , in response to said digital signal having a value of ZERO and the video background signal, a first signal, and for **generating** , in response to said digital signal having a value of ONE and the video background signal, a **second** signal, the picture elemnt Pi, j, ; being illuminated at a predetermined fraction of said predetermined intensity by the illuminating means of the video displaying means, in response to the **second**0 s

...Abstract (Equivalent): Video Bit signals corresponding to a CRT **picture element** (PI,J) and the immediately surrounding CRT **picture elements** are read from an image memory. A digital signal is **generated** representing a Boolean Function. The intensity of the background illumination at PI,J, is unaltered...

...An address reader is provided comprising shift registers coupled to D type flip-flops. The **reduction** in intensity **creates** a halo around a symbol which is black in appearance, and distinguishes the symbol from

...

...Title Terms: **GENERATE** ;

**27/3,K/18 (Item 18 from file: 350)**
DIALOG(R)File 350:Derwent WPIX

004302484
WPI Acc No: 1985-129362/198522
XRPX Acc No: N85-097335
Reduction **of matrix** character **size - has large matrix** character **format subjected to** reduction **process for input to work processor**
Patent Assignee: RICOH KK (RICO )
Inventor: GOJO T
Number of Countries: 003 Number of Patents: 005
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| DE 3440377 | A | 19850523 | DE 3440377 | A | 19841105 | 198522 | B |
| GB 2149165 | A | 19850605 | GB 8427488 | A | 19841031 | 198523 | |
| US 4555191 | A | 19851126 | | | | 198550 | |
| GB 2149165 | B | 19870218 | | | | 198707 | |
| DE 3440377 | C | 19880804 | | | | 198831 | |

Priority Applications (No Type Date): JP 83206914 A 19831105
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| DE 3440377 | A | | 28 | | |
Reduction **of matrix** character **size**...

...**has large matrix** character **format subjected to** reduction **process for input to work processor**

...Abstract (Basic): **Characters** , e.g. Japanese, represented in a 24x24 dot matrix format are subjected to a **reduction** process to **produce** 8x8 format for handling in a word processor system. The **characters** are **stored** in a memory (200), which is read into a **reduction** unit coupled to a display control module. The data is read as groups of 8...

...registers and three outputs (Q6, Q7, Q8) connect with AND gates (408) providing X axis **reduction** . A coupled OR gate connects with a pair of flip flops (414, 416) with outputs...

...Outputs are transmitted to OR gates (422) coupled to a register (424) providing Y axis **reduction** .
...

...ADVANTAGE - **Reduction** without increased memory capacity
...Abstract (Equivalent): The **character font reducing** circuit uses a memory, the content of which is shiftable, and which stores the **pixel** data readout from the **font** memory. Theoutput signals of the **storage** unit are processed by the logic unit which divides the base dot matrix into a dot submatrix containing many dots of the basic matrix. The **reduction** is first carried out in the X direction forming blocks of many submatrix **points** . The latter are then shifted in one direction, and similar steps are carried out to...

...The system is based on the **font storage** unit (200) directly connected to the display controller and to the **font reducer** (400) linked to the display. The display controller includes the display unit, control set, output...

...ADVANTAGE - System eliminates **storage** of **reduced font** data and ensures exact and precise reproduction of **smaller** printout. (14pp)
...Abstract (Equivalent): A method of **reducing** the size of a **character** which is represented by a data matrix having a plurality of rows of

data arranged in a first direction and a plurality of columns of data arranged in a **second** direction perpendicular to the first direction, said method comprising the steps of: (a) **producing** first data by dividing a row of the data matrix into a plurality of blocks...

...number of data and, then, assiging a single first data value to each block; (b) **producing** **second** data by shifting the row used in the step (a) in the first direction to...

...then dividing the shifted row into a plurality of blocks, and then assigning a single **second** data value to each block; (c) computing third data by associating the first and **second** data with each other in the **second** direction; (d) computing third data for a **second** predetermined number of subsequent by sequentially performing the steps (a), (b) and (c); (e) computing fourth data by associating in the **second** direction the third data computed by the step (d); and (f) computing the fourth data associated with the whole **character** data matrix by repeating the consecutive steps (a) through (e).r

...Abstract (Equivalent): Digitised **font** data representative of a **character** **font** is constructed in a dot matrix consisting of rows in an X direction and columns...

...USE/ADVANTAGE - Word processor, office computer. **Reduces** size of **character** **font** . (14pp)

Title Terms: **REDUCE** ;

?